FASEB CONFERENCE
GENETIC RECOMBINATION AND GENOME REARRANGEMENTS
Tentative Schedule July 9-14, 1989

1. GENOME REARRANGEMENTS

Session leader: Rodney Rothstein
Department of Genetics
Columbia University

Topics: Genome rearrangements in Retinoblastoma
Genetic defects in scid mice
Inactivation of duplicated sequences in N. crassa

2. PHYSICAL STRUCTURES IMPLICATED IN RECOMBINATION

Session leader: Paul Modrich
Department of Biochemistry
Duke University

Topics: Physical structure and properties of Holliday junctions
Structural analysis of complexes of RecA with DNA
Dependence of DNA structure on nucleotide sequence

3. GENETIC CONTROL OF RECOMBINATION

Session leader: Rochelle Esposito
Erman Biology Center
University of Chicago

Topics: Genetic basis for control of genetic recombination
Genetic analysis of recombination hotspots
Control of initiation of recombination

4. GENOME REMODELING IN MAMMALS

Session leader: C. Thomas Caskey
Institute of Molecular Genetics
Baylor College of Medicine

Topics: Use of retroviral vectors in gene therapy
Targeted recombination in mammalian cells
Genome remodeling in embryonic and hematopoietic stem cells

5. CATALYSIS OF HOMOLOGOUS PAIRING

Session leader: Michael Cox
Department of Biochemistry
University of Wisconsin

Topics: Strand transferases in E. coli
Strand transferases in Drosophila and mammals
Physical biochemistry of strand transfer

Source: https://www.industrydocuments.ucsf.edu/docs/yppv0000

6. SITE-SPECIFIC RECOMBINATION

Session leader: Art Landy
Department of Biology and Medicine
Brown University

Topics: Bacteriophage lambda integration and excision
Site-specific recombination by gamma-delta resolvase
Lox-cre site-specific recombination in mammalian cells

7. NUCLEASES INVOLVED IN RECOMBINAITON

Session leader: A. John Clark
Department of Molecular Biology
University of California, Berkeley

Topics: Exonuclease I and Exonuclease V in E. coli
Recombination nucleases in yeast
Holliday junction resolvase from yeast

8. TRANSPOSITION

Session leader: Nick Cozarelli
Department of Molecular Biology
University of California, Berkeley

Topics: Topological analysis of transposition
Intermediates and in vitro studies of transposition
Genetic regulation and control of transposition

9. MISMATCH REPAIR

Session leader: Margaret Lieb
Department of Microbiology
University of Southern California
School of Medicine

Topics: Repair of mismatched bases in E. coli.
Repair of mismatch sites in yeast
Repair of mismatches in artificial heteroduplex in mammals

SPECIAL TALK "History of the DNA Heteroduplex"
Dr. Robin Holliday
Laboratory of Molecular Biology
CSIRO Australia

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